## WHAT IS CLAIMED IS:

1	1. A system, comprising:
2	a connection to a virtual private network;
3	a router, connected to said virtual private network, wherein said router
4	maintains at least one virtual router for a client;
5	at least one server, said server having at least one logical partition;
6	a virtual LAN switch, connected to said router, said virtual LAN switch
7	providing selectable forwarding for information from said router to said at least one
8	logical partition of said at least one server;
9	at least one volume;
10	an FC switch, wherein said FC switch provides selectable interconnection
11	between said at least one logical partition of said at least one server and said at least one
12	volume, so that information received from a plurality of sources via said virtual private
13	network is directed to a particular virtual router for each of said sources by said router,
14	and wherein said information is then directed to a particular one of said at least one
15	logical partition of said server for each of said sources by said virtual LAN switch, and
16	wherein said information is then directed to a particular volume for each of said sources
17	by said FC switch.
1	2 The section of claim 1 footbooks are winted as interest and restricted
1	2. The system of claim 1, further comprising a virtual private network
2	management system that controls operation of said router.
1	3. The system of claim 2, said virtual private network management
2	system further comprising: a network interface module that receives commands from an
3	integrated service management system, a service order processing module that analyzes
4	and executes the commands, updates a table of virtual private network information, and
5	sends new configuration information to said router through a control module.
1	4. The system of claim 2, said virtual service management system
2	further comprising a virtual private network table, said virtual private network table
3	having a VPN ID that identifies a specific VPN, an Address 1 and an Address 2 that hold
4	IP addresses of two end points of said specific VPN, a Protocol that specifies a VPN
5	protocol that is used on said specific VPN, an Internet that indicates whether access to

- public Internet is permitted, and a VLAN ID that is assigned to packets received over said
   specific VPN.
- The system of claim 1, further comprising a server management system that controls operation of said virtual LAN switch.
- 1 6. The system of claim 1, further comprising a storage management system that controls operation of said FC switch.
- 7. The system of claim 1, further comprising an integrated service management system that controls operations.
- 8. The system of claim 7, said integrated service management system further comprising: a network interface module that receives requests to change configuration, a service order processing module that analyzes and executes requests to change configuration received by said network interface module, updates related table cache in a service management database, and sends new configuration information using said network interface module.
- 9. The system of claim 8, further comprising an operator console application that sends a request command to change service configuration to said integrated management system.
- 1 10. The system of claim 8, further comprising a customer portal 2 application that sends a request command to change service configuration to said 3 integrated management system.
- 1 11. The system of claim 8, said integrated service management system 2 further comprising a service configuration table, said service configuration table having 3 destination information.
- 1 12. The system of claim 8, said integrated service management system
  2 further comprising a server table, said server table having a server identification, an
  3 address, a physical server identifier, a virtual LAN identification, a logical partition
  4 (LPAR) identification, a host bus adaptor (HBA) identification, an application
  5 identification on approximate system identifier, and a CPIL information
- 5 identification, an operating system identifier, and a CPU information.

1	13. The system of claim 8, said integrated service management system
2	further comprising a storage table, said storage table having a volume identifier, a port
3	identifier, an allowed host bus adapter(s) (HBAs) identifier, a capacity identifier, and an
4	access information.
1	14. The system of claim 8, said integrated service management system
2	further comprising a service mapping table, said service mapping table having a customer
3	identifier, a virtual private network identifier, a server identifier, and a volume identifier.
1	15. The system of claim 8, said integrated service management system
2	further comprising a service status table, said service status table having a customer
3	identifier, a virtual private network status, a server status, and a volume status.
1	16. A method for managing storage, comprising:
2	receiving a request to change a configuration of an integrated storage and
3	networking system;
4	analyzing said request to determine a new configuration;
5	updating configuration tables to reflect said new configuration, said
6	configuration tables comprising a mapping between a logical partition and at least one of
7	a plurality of HBAs attached thereto; and
8	sending new configuration information to at least one of a plurality of
9	subsystem managers.
1	17. A method for managing a configuration for a virtual private
2	network, comprising:
3	receiving at a subsystem manager a request to change to a new
4	configuration for a virtual private network of an integrated storage and networking
5	system;
6	analyzing said request to determine a new configuration for said virtual
7	private network of said integrated storage and networking system;
8	updating configuration tables to reflect said new configuration, said
9	configuration tables comprising a mapping between a logical partition and at least one of
10	a plurality of HBAs attached thereto; and
11	sending commands to a virtual private network router to implement said
12	new configuration

1	18. A method for managing a configuration for at least one of a
2	plurality of servers, comprising:
3	receiving at a subsystem manager a request to change to a new
4	configuration for at least one of a plurality of servers in an integrated storage and
5	networking system;
6	analyzing said request to determine a new configuration for said at least
7	one of a plurality of servers in said integrated storage and networking system;
8	updating configuration tables to reflect said new configuration, said
9	configuration tables comprising a mapping between a logical partition and at least one of
10	a plurality of HBAs attached thereto; and
11	sending commands to a virtual LAN switch to implement said new
12	configuration.
1	19. A method for managing a configuration for at least one of a
1 2	19. A method for managing a configuration for at least one of a plurality of storage devices, comprising:
3	receiving at a subsystem manager a request to change to a new
4	configuration for at least one of a plurality of storage devices of an integrated storage and
5	networking system;
6 7	analyzing said request to determine a new configuration for said at least
	one of a plurality of storage devices of said integrated storage and networking system;
8	updating configuration tables to reflect said new configuration, said configuration tables comprising a mapping between a logical partition and at least one of
9	
10	a plurality of HBAs attached thereto; and
11	sending commands to a fibre channel switch to implement said new
12	configuration.
1	20. An apparatus, comprising:
2	a connection to a virtual private network;
3	a router, connected to said virtual private network, wherein said router
4	maintains at least one virtual router for a client;
5	at least one server, said server having at least one logical partition;
6	a virtual LAN switch, connected to said router, said virtual LAN switch
7	providing selectable forwarding for information from said router to said at least one
8	logical partition of said at least one server:

9 at least one volume; 10 an FC switch, wherein said FC switch provides selectable interconnection between said at least one logical partition of said at least one server and said at least one 11 volume, so that information received from a plurality of sources via said virtual private 12 13 network is directed to a particular virtual router for each of said sources by said router, 14 and wherein said information is then directed to a particular one of said at least one 15 logical partition of said server for each of said sources by said virtual LAN switch, and 16 wherein said information is then directed to a particular volume for each of said sources 17 by said FC switch.

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